

ABSTRACT

A rotary vane compressor having features for reducing sound emitted
5 from the compressor during operation. The sound reduction features include and
relate to specific components of the compressor. Specifically the features relate
to (1) the compressor motor; (2) a non-vented motor housing and back or closure;
(3) the inlet ring ; (4) the bearing system; (5) the rotor and vane positioning and
vane weight or mass; (6) the mass of the body within which the rotor and vane
10 rotate; and (7) a shroud which surrounds the body which is solid and non-vented
solid and may be formed of a laminated material having a sound dampening core
layer.